

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.20.2014

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Eriochrome Black T

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : Eriochrome Black T

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25304

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:



Flammable

Flammable liquids, category 3

Flammable Liquids Cat. 3

Signal word :Warning

Hazard statements:

Flammable liquid and vapour

Precautionary statements:

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Keep away from heat/sparks/open flames/hot surfaces. No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/light/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

In case of fire: Use agents recommended in section 5 for extinction

Store in a well ventilated place. Keep cool

Dispose of contents and container to an approved waste disposal plant

Other Non-GHS Classification:

WHMIS

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NFPA/HMIS



NFPA SCALE (0-4)

Health	1
Flammability	2
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 102-71-6	Triethanolamine	81.01 %
CAS 64-17-5	Ethanol	18.95 %
CAS 1787-61-7	Eriochrome Black T	0.04 %
Percentages are by weight		

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Do not perform mouth-to-mouth on an unconscious person.

After skin contact: Wash hands and exposed skin with soap and plenty of water. Get medical assistance.

After eye contact: Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Occasionally lift the upper and lower eyelids while rinsing. Get medical assistance.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical assistance.

Most important symptoms and effects, both acute and delayed:

Irritation. Nausea. Headache. Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant

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foam.

For safety reasons unsuitable extinguishing agents: Water may be ineffective on fire.

Special hazards arising from the substance or mixture:

Carbon oxides.Nitrogen oxides.Flashback along vapor trail may occur.

Advice for firefighters:

Protective equipment: Wear protective eyeware, gloves, and clothing.

Additional information (precautions): Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.Fire Fighting Instructions: Use normal procedures. Use protective clothing. Use NIOSH approved breathing equipment. Do not inhale gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Keep product and empty container away from heat and sources of ignition.Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Ensure adequate ventilation.

Environmental precautions:

Should not be released into environment.

Methods and material for containment and cleaning up:

Soak up with inert absorbent material.Keep in suitable closed containers for disposal.Collect contaminated soil for characterization per Section 13 .If necessary use trained response staff or contractor.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid splashes or spray in enclosed areas.Wear protective eyeware, gloves, and clothing.Wash hands after handling. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry, and well-ventilated area. Store in inert atmosphere. Store away from acids.Store product and empty container away from heat and sources of ignition.Store away from food.Store with like hazards. Store away from incompatible materials.

SECTION 8 : Exposure controls/personal protection



Control Parameters:

102-71-6, Triethanolamine ACS, ACGIH 5 mg/m3 TWA

Appropriate Engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

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Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.
Protection of skin:	Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Wear protective clothing.
Eye protection:	Safety glasses with side shields or goggles.
General hygienic measures:	Before wearing wash contaminated clothing. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands before breaks and at the end of work. Follow Chemical Hygiene Plan. Wash hands and exposed skin with soap and plenty of water. Remove contaminated clothing and shoes.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Dark, Blue Liquid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Alcohol	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	Not Determined	Relative density:	Not Determined
Melting/Freezing point:	Not Determined	Solubilities:	Not Determined
Boiling point/Boiling range:	Not Determined	Partition coefficient (n-octanol/water):	Not Determined
Flash point (closed cup):	~32C	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Flammable	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity:

Chemical stability: Hygroscopic. Air sensitive.

Possible hazardous reactions: None under normal processing.

Conditions to avoid: Incompatible materials. Heat, hot surfaces, open flames, and sources of ignition.

Incompatible materials: Oxidizers, aldehydes, heat, sparks, open flame. Will attack some forms of rubber, plastics, and coatings. May react with metallic aluminum and generate hydrogen gas.

Hazardous decomposition products: Carbon oxides. Nitrous oxides. Hydrogen cyanide. Formaldehyde.

SECTION 11 : Toxicological information

Acute Toxicity:		
Oral:	Rat	LD50 5530 mg/kg (Triethanolamine)

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Oral:	Rat	LD50 17590 mg/kg (Eriochrome Black T)
Dermal:	Rabbit	LD50 >22.5 g/kg (Triethanolamine)
Chronic Toxicity: No additional information.		
Corrosion Irritation: No additional information.		
Sensitization:	May cause sensitization by skin contact.Irritation: Causes eye irritation	
Single Target Organ (STOT):	No additional information.	
Numerical Measures:	No additional information.	
Carcinogenicity:	Triethanolamine: Liver - Irregularities - Based on Human Evidence	
Mutagenicity:	Other Adverse Effects: Tumorigenic effects have been reported in experimental animals.	
Reproductive Toxicity:	No additional information.	

SECTION 12 : Ecological information

Ecotoxicity

Freshwater Algae: 72 Hr EC50 Desmodesmus subspicatus: 216 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 169 mg/L

Freshwater Fish: 96 Hr LC50 Pimephales promelas: 10600 - 13000 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >1000 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 450 - 1000 mg/L [static]

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential:

Mobility in soil: Aqueous solution has high mobility in soil: -2.53

Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Do not allow product to reach sewage system or open water.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Place in container for disposal according to local regulations (see section 13).Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14 : Transport information

UN-Number

1993

UN proper shipping name

Flammable Liquid, N.O.S., (Ethanol Solution)

Transport hazard class(es)

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Class:

3 Flammable liquids

Packing group:III

Environmental hazard:Should not be released into environment.

Transport in bulk:

Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Fire

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

64-17-5 Ethanol

Canadian NPRI Ingredient Disclosure list (limit 1%):

102-71-6 Triethanolamine

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct

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employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

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